IS 8259 : 2023

ऑक्सीडेमेटन — मिथाइल ई. सी. — विशिष्टि

(पहला पुनरीक्षण)

Oxydemeton — Methyl Emulsifiable Concentrates — Specification

(First Revision)

ICS 65.100.10

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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Pesticides Sectional Committee had been approved by the Food and Agriculture Divisional Council.

Oxydemeton-methyl emulsifiable concentrates are largely used in the control of insects pest of agricultural importance. They are specially used in the control of sucking pests.

The emulsifiable concentrate formulation is manufactured to contain 25 percent (m/m), oxydemeton-methyl.

This standard was first published in 1976. In this revision, the standard has been brought out in the latest style and format of the Indian Standards, and references to Indian Standards wherever applicable have been updated. It also incorporates two amendments issued to this standard.

In the preparation of this standard, due consideration has been given to the provisions of the *Insecticides Act*, 1968, and the Rules framed thereunder. However, this standard is subject to the restrictions imposed under these, wherever applicable.

The composition of the Committee responsible for the formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

OXYDEMETON — METHYL EMULSIFIABLE CONCENTRATES — SPECIFICATION

(First Revision)

1 SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for oxydemetonmethyl emulsifiable concentrates.

2 REFERENCES

The standards, given below contain provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards.

IS No.	Title
IS 1070: 1992	Reagent grade water — Specification (third revision)
IS1260 (Part1) : 1973	Pictorial marking for handling and labelling of goods: Part 1 Dangerous goods
IS 1448 (Part 20): 2019	Method of test for petroleum and its products: (Part 20) determination of flash point — Abel closed — Cup method (third revision)
IS 6940 : 1982	Methods of test for pesticides and their formulations (first revision)
IS 8190 (Part 2) : 1988	Requirements for packing of pesticides: Part 2 liquid pesticides (second revision)
IS 8258 : 2022	Oxydemeton methyl technical concentrate — Specification (first

IS 10627: Methods for sampling of pesticidal 1983 formulation

revision)

3 REQUIREMENTS

3.1 Constituents

The material shall consist of oxydemetonmethyl, technical concentrate, dissolved in suitable solvent(s), together with emulsifying agent(s), and with or without stabilizer(s).

3.1.1 Oxydemeton-Methyl

Technical concentrate employed in the manufacture of this material shall conform to IS 8258.

3.2 Physical

The material shall comply with the physical requirements specified in 3.2.1 to 3.2.4.

3.2.1 Description

The material shall be a stable liquid and shall be free from suspended matter and sediment.

3.2.2 Cold Test

No turbidity or separation of solid and/or oily matter shall occur when the material is subjected to the cold test at 10 °C as prescribed in IS 6940 or at any other lower temperature as agreed to between the purchaser and tndor.

3.2.3 Flash Point (Abel)

When determined by the method prescribed in IS 1448 (Part 20), the flash point of the material shall be above 24.5 °C.

3.2.4 Emulsion Stability

The creaming or the sediment, if any, shall not in either case exceed 2.0 ml at the top or bottom of the 100 ml cylinder, when tested by one of the methods prescribed in IS 6940.

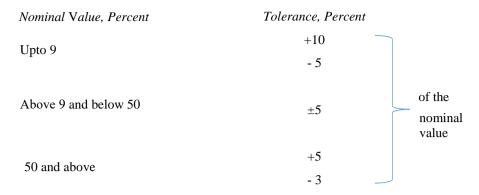
3.3 Chemical

The material shall comply with the chemical requirements specified in 3.3.1 and 3.3.2.

3.3.1 Oxydemeton — Methyl Content

When determined by the method prescribed in Annex A of IS 8258, the observed oxydemetonmethyl content, percent by mass, of any of the samples shall not differ from the nominal value by more than the appropriate percent tolerance when applied to the declared nominal value as given below:

IS 8259: 2023



3.3.1.1 The actual value of the oxydemeton-methyl content in the formulation shall be calculated to the second decimal place for rounding off the first decimal place before applying the tolerances given in **3.3.1**.

3.3.2 Acidity/Alkalinity

When tested by the method prescribed in IS 6940, the acidity (as H_2SO_4), or alkalinity (as NaOH) shall be not more than 1.5 and 0.01 percent by mass respectively.

4 PACKING

The material shall be packed in clean and dry containers made of mild steel or tin plate or aluminium. Mild steel or tin plate containers shall be suitably and properly lacquered from inside. The containers shall also conform to the various general requirements stipulated in **2** of IS 8190 (Part 20).

5 MARKING

- **5.1** The containers shall be securely closed and shall be bear legibly and indelibly the following information in addition to any other information as required under the *Insecticides Act*, 1968 and Rules framed thereunder:
 - a) Name of the material;
 - b) Name and address of the manufacturer;
 - c) Batch number;
 - d) Date of manufacture;
 - e) Date of expiry;
 - f) Net quantity;
 - g) Nominal oxydemeton-methyl content, percent (m/m):
 - h) Cautionary notice as worded in the *Insecticides Act*, 1968, and Rules framed thereunder; and
 - j) Any other information required under the Legal Metrology (Packaged Commodities) Rules, 2011.

5.2 In addition to the above, the container shall also be marked with symbol for danger of poisoning as specified in IS 1260 (Part 1).

5.3 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

6 SAMPLING

When freshly manufactured material in bulk quantity IS offered for inspection, representative samples of the material shall be drawn and tested as prescribed m IS 10627 within 90 days of its manufacture. When the material is offered for inspection after 90 days of its manufacture, sampling shall be done as prescribed in IS 10627. However, the criteria for conformity of the material when tested, shall be the limits of tolerances as applicable over the declared nominal value and given under clause **3.3.1** of the standard .

7 TESTS

7.1 Tests shall be carried out by the appropriate methods referred to in 3.2.2, 3.2.3, 3.2.4, 3.3.1 and 3.3.2.

7.2 Quality of Reagents

Unless specified otherwise, pure chemicals and distilled water (*see* IS 1070) shall be employed in tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

IS 8259 : 2023 ANNEX A

(Foreword)

COMMITTEE COMPOSITION

Pesticides Sectional Committee, FAD 01

Organization Representative(s)

Directorate of Plant Protection Quarantine and Storage, DR RAVI PRAKASH (Chairperson)

Faridabad

SHRI SAURABH SINGHAL All India Biotech Association, New Delhi

SHRI SHAH JI DHAR (Alternate)

Central Insecticide Board and Registration Committee, SECRETARY

Faridabad

DR VANDANA SETH (Alternate)

Central Insecticide Laboratory, Faridabad DR ARCHANA SINHA

SHRI SUBHASH CHAUDHARY (Alternate)

Consumer Guidance Society of India, Mumbai SHRI. SITARAM DIXIT

DR M. S. KAMATH (Alternate)

Crop Care Federation of India, New Delhi DR J. C. MAJUMDAR

Crop Life India, New Delhi SHRI ASITAVA SEN

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CSIR-Indian Institute of Toxicology Research, **DIRECTOR**

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FMC India Private Limited, Bengaluru SHRI CHIRAG PATEL

IDMA Laboratories Limited, Chandigarh DR INDRA RAI

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Indian Institute of Packaging, Mumbai DR TANWEER ALAM

Indian Pest Control Association, New Delhi SHRI UDAYAN GHOSH

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Pesticide Manufactures and Formulators Association of DR ARCHANA SRIVASTAVA

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IS 8259: 2023

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BIS Directorate General

SHRIMATI SUNEETI TOTEJA, SCIENTIST 'E'/DIRECTOR
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[REPRESENTING DIRECTOR GENERAL (Ex-officio)]

Member Secretary
SHRI KULDEEP MITTAL
SCIENTIST 'B'/ ASSISTANT DIRECTOR
(FOOD AND AGRICULTURE), BIS

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This Indian Standard has been developed from Doc No.:FAD 01 (19371).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected	

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